

# UNION PACIFIC RAILROAD COMPANY

K. R. (KEN) WELCH  
Assistant Vice President  
Environmental Management

Mailing Address:  
Room 930  
1416 Dodge Street  
Omaha, Nebraska 68179  
Fax No. (402) 271-4461



G. (GLENN) THOMAS  
Director-Environmental Operations-  
Central  
S. W. (STEVE) BERKI  
Director-Environmental Operations-  
Western  
L. A. (LANNY) SCHMID  
Director-Environmental Operations-  
Southern  
R. L. (RICK) EADES  
Director-Environmental Site Remediation

November 2, 1995

Environmental Protection: NE, Omaha

NOV 08 1995

RCOM SECTION

Ms. Claudia Vines, Environmental Scientist  
PRC Environmental Management, Inc.  
650 Minnesota Avenue  
Kansas City, Kansas 66101

Dear Ms. Vines:

Re: Request for Information - Omaha, NE

Attached is plating shop information and assessment reports for our facility at Omaha, NE. This material is in response to your request regarding RCRA Facility Assessment conducted on July 31, 1995.

If there are any questions regarding this data please contact me at (402) 271-4037. Thank you.

Sincerely,

Jerry Covey  
Manager Compliance Measurement

BCC: Mr. G. Thomas - Room 930  
Mr. S. C. McNaughton - Room 930  
Mr. R. F. Anderson - Room 930  
Mr. T. J. Dahir - Council Bluffs



R00176478  
RCRA RECORDS CENTER

A7

# Proposal

## I. Project Description

Union Pacific Railroad Company's (UPRR) Omaha, NE location has requested turn-key waste management services for the plating shop clean-up project. These services will include:

- sampling when necessary,
- testing when necessary,
- packaging (i.e. bulking of compatible materials),
- marking and labeling,
- profiling,
- transportation,
- paperwork, and
- treatment and/or disposal of conforming wastes.

## II. Management Services

USPCI proposes the following waste management services:

- To generate a site-specific health and safety plan.
- To set up a restricted work area as defined in the health and safety plan. Once on-site, if it is determined by the project leader that there is an existing condition or circumstance that contributes to an unsafe working environment, the project leader reserves the right to correct the situation or postpone the project until a safe working environment can be provided.
- To package, mark, and label all identified wastes so as to meet the requirements of:
  - a) U.S. Department of Transportation
  - b) U.S. Environmental Protection Agency
  - c) State and Local Agencies
  - d) Treatment and/or Disposal Facilities
  - e) UPRR
  - f) USPCI
- To properly load, block, and brace all waste materials on properly permitted transportation vehicles and transport all waste materials to USPCI treatment, storage, and disposal facilities or other facilities if deemed appropriate and acceptable to client.

- To treat and/or dispose of all hazardous wastes in compliance with applicable federal and state regulations and in accordance with UPRR's treatment and disposal hierarchy set forth in any purchase order that arises out of this proposal.
- To document all treatment and/or disposal that may occur in association with this proposal via Certificates of Disposal.

### III. Contingencies

This proposal is contingent upon the following:

- Disposal services will be provided by a Non-USPCI facility. That facility is American NuKEM's CyanoKEM facility in Detroit, MI.
- Materials not indicated in pricing breakdown will be priced based on the existing contract or the Time and Material Rates.
- Any "bulk" (non-lab pack) wastes which are determined to be unacceptable for transportation will be overpacked into a salvage drum at an additional cost per drum.
- Any wastes found to be unacceptable for processing by USPCI will be left on the generator's site and will not become part of this project. At a minimum, the disposal facility will not accept radioactives, biologicals, explosives, dioxins or their derivatives. In addition, until the federal regulations for mercury disposal are finalized, all mercury compounds will remain on the generator's site.
- Union Pacific Railroad shall provide a safe and secure working area.
- All waste stream(s) will be handled according to current treatment standards or variances.
- Once packaged, the wastes may be left on-site for a short time while we are awaiting disposal schedule slots.
- All work on this project will be performed under the Master Services Agreement between Union Pacific Railroad and USPCI, with signature date August, 25 1989. This agreement is valid indefinitely.

### IV. Price

USPCI will perform this project, based on the above conditions, on a time-and-materials basis for an estimated cost of [REDACTED]

## V. Breakdown of Pricing

The following is a breakdown of the estimated cost associated with this clean-up:

### MOBILIZATION/DEMOBILIZATION

### ON-SITE LABOR

(This includes a Field Chemist and three Field Technicians for twenty-one days)

### SAFETY GEAR

### EQUIPMENT

### SUPPLIES

### TRANSPORTATION

### DISPOSAL

(The disposal pricing includes: 2 roll-off containers of wood debris; 2 roll-off containers of empty acid tanks; 2 - 3 roll-off containers of empty cyanide tanks; 1 roll-off container of acid debris; 1 roll-off container of cyanide debris; and approximately 80 drums of liquid, solid, and debris hazardous waste. Please note that the disposal estimate has been marked up 5% as per the terms of the existing agreement between UPRR and USPCI.)

### TOTAL ESTIMATED COST

\$282,368.00

## VI. Proposal Acceptance

I have read, understand, and accept USPCI's Proposal #93-01-0106.

Accepted by: \_\_\_\_\_ Name (Please Print)

\_\_\_\_\_ Title

Union Pacific Railroad Company Company

\_\_\_\_\_ Signature

\_\_\_\_\_ Date

# **Attachment 1**

## **USPCI Time and Material Rates**

**USPCI Consolidation Services Department  
Wichita, Kansas  
Time and Material Rates**

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**Personnel<sup>1</sup>**

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Field Chemist	\$ [REDACTED] hour
Field Technician	\$ [REDACTED] hour
Per Diem	[REDACTED] person/day
Rental Vehicle	Cost plus [REDACTED]

<sup>1</sup> Hourly rates will be charged portal to portal basis.

<sup>1</sup> A premium rate of time and a half will be assessed after 8 hours on weekdays and all day on Saturdays, Sundays, or Holidays.

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**Equipment**

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Personal Protective Equipment

Level D	[REDACTED] person/hour
Level C	[REDACTED] /person/hour
Level B	[REDACTED] person/hour

Vehicles<sup>2</sup>

24 foot truck (Midline Truck)

<sup>2</sup> Prices are exclusive of driver or operator.

Other Equipment<sup>3</sup>

Forklift	[REDACTED] day
Manlift	[REDACTED] day
Portable Generator	[REDACTED] day
Drum Pumps	[REDACTED] /day
Barrel Cart	[REDACTED] /day
Roll-Off Liners	[REDACTED] each
Equipment not Listed	Cost plus [REDACTED] %

<sup>3</sup> All cleaning or decontamination of equipment will be done on-site and charged on a time and materials basis.

<sup>3</sup> Disposable items or decontamination rinseate will be disposed of properly at the customer's expense.

## Materials

### Steel Drum

85 gallons	[REDACTED] each
55 gallons (DOT 17H or 17E)	[REDACTED] each
5 gallon (DOT 37A, 17C, or 17E)	[REDACTED] each

### Polyethylene Drums

95 gallons (DOT-E9618)	[REDACTED] each
85 gallons (DOT-E9975)	[REDACTED] each
55 gallons (Open Head DOT-E7768)	[REDACTED] each
55 gallons (Closed Head DOT 34)	[REDACTED] each
20 gallons (Open Head DOT-E7768)	[REDACTED] each

### All other supplies

Cost Plus [REDACTED]

**Treatment and Disposal (See Attached Pricing  
from CyanoKEM, Attachment 2)**

## Transportation

Transportation Rate (Includes Roll-Off's and Van Trailers)	[REDACTED] loaded mile
---	------------------------

Roll-Off Spot Charge	[REDACTED] /box
----------------------	-----------------

Roll-Off Rental	[REDACTED] box/day
-----------------	--------------------

Less than load (LTL) rate	[REDACTED] stop charge plus drum rate
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### To Detroit, Michigan

55 gallon drum	[REDACTED] drum
30 gallon drum	[REDACTED] drum
20 gallon drum	[REDACTED] drum
10 gallon drum	[REDACTED] drum
5 gallon drum	[REDACTED] drum

### All Other Transportation Charges

Cost Plus 3%

# **Attachment 2**

## **CyanoKEM Disposal Pricing**

**CyanoKEM** An American NuKEM Company

June 28, 1993

CyanoKEM Inc.  
17515 W. Nine Mile Rd.  
Suite 840  
Southfield, MI 48075  
(313) 559-6000  
Fax (313) 559-3290

Mr. Joe W. Dowday  
USPCI  
2349 North New York Street  
Wichita, KS 67219

Mr. Dowday:

Thank you for giving us the opportunity to quote on the clean-up project with Union Pacific Railroad in Omaha, Nebraska.

The project price for the entire project will include treatment and disposal for the following:

- 11 metal acid tanks
- 17 metal cyanide tanks
- Approximately 100 feet of I-beam
- All wood flooring in plating area and brick plating room
- Wood ceiling in brick plating room
- All hoods and exhaust duct work
- Miscellaneous metal debris in plating area, i.e. pumps, drives, piping, water fountains, etc.
- Approximately 77 55 gallon drums of waste consisting of:
  - 35-40 liquid acid drums
  - 31-35 liquid CN drums
  - 4 solid and debris CN drums

All of the above listed waste will be shipped from the generator, Union Pacific Railroad, with USPCI acting as the broker, to CyanoKEM in Detroit, MI. We request that the material be in either 55 gallon drums or a 20 yd<sup>3</sup> roll-off container.

The following provisions must apply:

- Plating tanks must be placed as one unit in roll-off containers. Each tank must be free of any liquids and of as much solid waste material as possible.
- All wood debris must be cut into 3 foot lengths.
- All roll-off containers are to be received on any Friday during the months of July and August.

**CyanoKEM**

The price quotation is to include all analytical services, all approval fees, site visit of sales and operation personnel, 2 day on-site coordination from a CyanoKEM Chemist/Waste Approval Operations Manager and BDAT treatment and proper disposal for all associated hazardous waste.

The price breakdown is as follows:

2 roll-off containers of wood debris	\$50,000
2 roll-off containers of empty acid tanks	27,000
2-3 roll-off containers of empty CN tanks	42,000
1 roll-off container of acid debris	13,000
1 roll-off container of CN debris	18,000
70-80 55 gallon drums of liquid, solid and debris hazardous waste:	
38-40 liquid acid drums	9,000
01-08 liquid CN drums	20,000
4 solid, debris CN drums	<u>3,000</u>
<b>TOTAL PRICE QUOTATION</b>	<b>\$185,000</b>

If any metal tanks have a liner attached, an added fee of \$2000 may apply.

We understand the teardown is expected to begin in mid-July and last approximately 2 weeks long. The sample process is to take place on June 30, 1993 and all samples must be received at CyanoKEM by July 6, 1993 in order to begin receiving waste as early as July 16, 1993. The following sample technique is recommended:

- Please take 2-3 samples of wood from various areas and submit under one profile/C#.
- Please incorporate each tank and all associated equipment, solution, solid material and debris under one profile. Please write all included material in the description section on the profile and use a paint marker to mark the equipment with the corresponding C#.

We look forward to working with you on this project. If you should have any questions, please feel free to contact us.

Sincerely,

*Elizabeth C. McCoy*

Elizabeth C. McCoy  
National Account Manager

cc G. Cottone  
A. Trujillo

LM/dc

# **Attachment 3**

## **Treatment, Storage, and Disposal Facilities List**

## TREATMENT, STORAGE, & DISPOSAL FACILITIES LIST

Please identify any of the facilities which are not approved by Union Pacific Railroad Company:

**USPCI - Hydrocarbon Recyclers, Inc.**

2549 N. New York  
Wichita, KS 67219  
316/268-9490  
EPA ID# KSD007246846  
Type of Disposal: Fuels Blending;  
Repackage/Bulk of Materials for Final Disposal:  
Transfer and Storage Facility  
Permitted EPA Codes: All codes except F020, F021,  
F023, F026, F027, F028, & K065

**USPCI - Rosemount Industrial Landfill**

13425 Courthouse Blvd.  
Rosemount, Minnesota 55068  
612/438-1500  
Type of Disposal: Industrial Landfill

**USPCI - Lone Mountain Facility**

Route 2, Box 170  
Waynoka, Oklahoma 73860  
405/697-3590  
EPA ID# OKD065438376  
Type of Disposal: Hazardous Waste Landfill

**ENSCO**

American Oil Road  
El Dorado, AR 71731  
501/863-7173  
EPA ID# ARD069748192  
Type of Disposal: Incineration

**Rollins Environmental Services**

P.O. Box 609  
Deer Park, TX 77536-0609  
713/930-2300  
EPA ID# TXD055141378  
Type of Disposal: Incineration

**ThermalKEM**

2324 Vernesdale Road  
Rock Hill, South Carolina 29731  
803/324-5310  
EPA ID# SCD044442333  
Type of Disposal: Incineration

**NSSI/Recovery Services, Inc.**

5711 Etheridge  
Houston, TX 77087  
713/641-0391  
EPA ID# TXD982560294  
Type of Disposal: Gas Cylinder Management

**Battery Disposal Technology**

4255 Research Parkway  
Clarence, NY 14031  
716/634-6794  
EPA ID# NYD000632372  
Type of Disposal: Hydrolization; Incineration

**Bethlehem Apparatus**

890 Front Street  
Hellertown, PA 18055  
215/838-7034  
EPA ID# PAD002390961  
Type of Disposal: Elemental Mercury Reclamation;  
Mercury Battery Reclamation  
Permitted EPA Code: D009; U151 is not acceptable.

**CyanoKEM**

12381 Schaefer Highway  
Detroit, MI 48227  
313/559-5900  
EPA ID# MID098011992  
Type of Disposal: Acid Treatment; Cyanide  
Destruction: Hydrolization of Oxidizers

**International Metals Reclamation Company**

P.O. Box 720, Route 488  
Ellwood City, PA 16117  
412/758-5515  
EPA ID# PAD087561015  
Type of Disposal: Nickel Cadmium Battery Disposal



A Subsidiary of  
Union Pacific Corporation

Treatment & Recovery Services

June 29, 1993

Mr. Jerry Covey  
Union Pacific Railroad Company  
1416 Dodge Street, Room 930  
Omaha, NE 68179

Re: **Plating Shop Clean-up**  
**USPCI Proposal Number 93-01-0106**

Dear Mr. Covey:

The Consolidation Services Department of U.S. Pollution Control, Inc. (USPCI) is pleased to present this proposal to provide removal, transportation, and disposal of plating shop waste from Union Pacific Railroad Company's Omaha, NE location. USPCI owns and operates some of the newest and most advanced treatment and disposal facilities in the nation.

USPCI is a full-service hazardous waste management firm that has been in business since 1968. As a subsidiary of Union Pacific Corporation, a multi-billion dollar corporation, USPCI has the strong financial backing needed to provide your company with unparalleled liability protection.

If the enclosed proposal is acceptable, please sign the **Proposal Acceptance** section of the proposal and return three copies of the complete bid package, along with your purchase order referencing this project, to the following address:

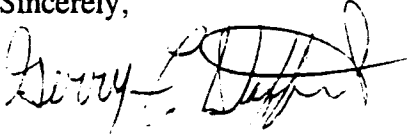
**U.S. Pollution Control, Inc.**  
**Consolidation Services Department**  
**2549 North New York Street**  
**Wichita, Kansas 67219**  
**Attn: Michelle Hartup**

All work on this project will be performed under the Master Services Agreement between Union Pacific Railroad and USPCI, with signature date August 25, 1989. This agreement is valid indefinitely.

Once the proposal package has been processed, USPCI will send one copy back to you with all the proper signatures for your files.

We sincerely appreciate your contacting us for a quotation. If you have any questions, or if I can be of further assistance, please feel free to call me at 316/268-9490. We look forward to working with you.

Sincerely,

A handwritten signature in black ink, appearing to read "Gerry F. Stafford". The signature is fluid and cursive, with a large, stylized "S" at the end.

Gerry F. Stafford, CHMM  
Consolidation Services Superintendent

GS

cc: Bernie Sabbert - USPCI  
Consolidation Services File Copy

**Proposal for  
Sampling, Packaging, Profiling,  
Transportation, and  
Treatment/Disposal of Plating Shop  
Waste**

**Submitted to  
Union Pacific Railroad Company  
1416 Dodge Street, Room 930  
Omaha, Nebraska 68179  
402/271-4037  
Attn: Jerry Covey**

**Prepared by  
U.S. Pollution Control, Inc.  
Consolidation Services Department  
2549 North New York Street  
Wichita, Kansas 67219**

**Proposal #93-01-0106  
Gerry F. Stafford  
June 29, 1993**

**Valid 30 Days**

# **Contents**

## **Proposal**

- I. Project Description
- II. Management Services
- III. Contingencies
- IV. Price
- V. Breakdown of Pricing
- VI. Proposal Acceptance

## **Attachments**

### **Attachment 1**

**USPCI Time and Material Rates**

### **Attachment 2**

**CyanoKEM Disposal Pricing**

### **Attachment 3**

**Treatment, Storage, and Disposal Facilities List**

# USPCI

## UNION PACIFIC RAILROAD CLEAN-UP

SAMPLE # (C #)	APPROVAL # (W #)	DESCRIPTION	CN	ACID
82699	22447	Tank Residue	Yes	--
82690	22454	CN Plating Solution	Yes	--
82803	22455	CN Solution Tank	Yes	--
82804	22456	CN Solution Debris Tank	Yes	--
82692	22457	Alkali Liquid/CN Debris	Yes	--
82802	22458	CN Solids	Yes	--
82694	22459	CN Solution Tank	Yes	--
82698	22449	CN Plating Tank Residue	Yes	--
82693	22451	Alkali Liquid and Drum	Yes	--
82816	22452	Wood Flooring Debris	Yes	--

SAMPLE # (C #)	APPROVAL # (W #)	DESCRIPTION	CN	ACID
82684	22446	Caustic Solid Debris Tank	--	Yes
82691	22443	Acid Solution Debris Tank	--	Yes
82809	22442	Acid Solution, Debris	--	Yes
82686	22441	Fuming Acid Solution Drum	--	Yes
82811	22440	Sludge Debris in Floor Pit	--	Yes
82814	22438	Acid Solution Debris Tank	--	Yes
82813	22437	Neutral Solution and Debris	--	Yes
82696	22436	Neutral Solution Debris Tank	--	Yes
82801	22435	Neutral Solution Debris Tank	--	Yes
82810	22434	Neutral Solution and Debris	--	Yes
82806	22433	Neutral Solution Tank	--	Yes
82808	22432	Caustic Solution Debris Tank	--	Yes
82805	22431	Neutral Solution and Debris	--	Yes
82688	22430	Neutral Solution Tank	--	Yes
82812	22429	Acid Solution Debris Tank	--	Yes
82815	22428	Acid Sludge Debris Tank	--	Yes
82807	22427	Neutral Solution and Debris	--	Yes
82697	22426	Acid Solution Debris Tank	--	Yes
82687	22425	Acid Solution Drum	--	Yes
82685	22424	Acid Liquid Tank Debris	--	Yes
82689	22422	Acid Solution	--	Yes
82700	22421	Acid Solution Tank	--	Yes
82695	22420	Neutral Solution and Debris	--	Yes

# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



0098011992

Control Number: C- 02016

W 22452

NOTE:

Items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanoKEM, 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: wood flooring, debris Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup HAZ WASTE Solid WASTE CLASS 9 NAJ077

DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA

Packing Group: NA Special Provisions:

EPA Waste Number(s): none 0006, 0007, 0008, 0011, F007

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°F: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☐ Liquid Other (explain): planks

Visual Description: wood flooring, wood debris laying around plating shop

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: NA pH: 5-8

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 50' x 150' approx. floor space

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

Transportation Equipment Requirements: \_\_\_\_\_

11

Provide the name and telephone number of the individual responsible for scheduling waste shipment.

Scheduling Contact: Ken Marks

Telephone: (316) 268-9490

### GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

### SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)			Actual Value
<b>D004</b> (Arsenic)	5.0	YES	NO	_____
<b>D005</b> (Barium)	100.0	YES	NO	_____
<b>D006</b> (Cadmium)	1.0	YES	NO	_____
<b>D007</b> (Chromium)	5.0	YES	NO	_____
<b>D008</b> (Lead)	5.0	YES	NO	_____
<b>D009</b> (Mercury)	0.2	YES	NO	_____
<b>D010</b> (Selenium)	1.0	YES	NO	_____
<b>D011</b> (Silver)	5.0	YES	NO	_____

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	YES	NO	Actual
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES	NO	_____
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES	NO	_____
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES	NO	_____
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Organic Toxicity Wastes				Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes				Characteristic Level (ppm)	Actual Value
D018	(Benzene)	0.5	YES	NO	_____	D031	(Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019	(Carbon Tetrachloride)	0.5	YES	NO	_____	D032	(Hexachlorobenzene)	0.13	YES	NO	_____
D020	(Chlordane)	0.03	YES	NO	_____	D033	(Hexachlorobutadiene)	0.5	YES	NO	_____
D021	(Chlorobenzene)	100.0	YES	NO	_____	D034	(Hexachloroethane)	3.0	YES	NO	_____
D022	(Chloroform)	6.0	YES	NO	_____	D035	(Methyl ethyl ketone)	200.0	YES	NO	_____
D023	(o-Cresol)	200.0	YES	NO	_____	D036	(Nitrobenzene)	2.0	YES	NO	_____
D024	(m-Cresol)	200.0	YES	NO	_____	D037	(Pentachlorophenol)	100.0	YES	NO	_____
D025	(p-Cresol)	200.0	YES	NO	_____	D038	(Pyridine)	5.0	YES	NO	_____
D026	(Cresol)	200.0	YES	NO	_____	D039	(Tetrachlorethylene)	0.7	YES	NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040	(Trichlorethylene)	0.5	YES	NO	_____
D028	(1,2-Dichloroethane)	0.5	YES	NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES	NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043	(Vinyl chloride)	0.2	YES	NO	_____

12 Check Yes and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

Authorization to Correct WSCR: I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the appropriate personnel representing the generator, transporter, or handler of the waste.

GENERATOR'S SIGNATURE

*[Signature]*

JERRY L. COVEY

*[Signature]*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 02085

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

W92424  
93012 11A  
3155

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. - If you are a broker, service company, or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Environmental Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York St City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acidic liquid, Metal debris, Plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup

DOT Shipping Name: Waste Corrosive Liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760

Packing Group: PG II Special Provisions:

EPA Waste Number(s): D002 1 0006, 0007

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid bath inside tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

4

**Chemical Composition**

Check " $\%$ " or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1 pH: 2-3

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

5

**Other Components and Constituents:**

If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_

PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

6

List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

7

Enter best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 tank

8

Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

9

Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

### Transportation Equipment Requirements:

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (316) 268-9490

### GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

### SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES ☒ NO

YES ☒ NO

YES ☒ NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	50	YES <input checked="" type="radio"/> NO
<b>D005</b> (Barium)	1000	YES <input checked="" type="radio"/> NO
<b>D006</b> (Cadmium)	10	YES <input checked="" type="radio"/> NO
<b>D007</b> (Chromium)	50	YES <input checked="" type="radio"/> NO
<b>D008</b> (Lead)	50	YES <input checked="" type="radio"/> NO
<b>D009</b> (Mercury)	0.2	YES <input checked="" type="radio"/> NO
<b>D010</b> (Selenium)	10	YES <input checked="" type="radio"/> NO
<b>D011</b> (Silver)	50	YES <input checked="" type="radio"/> NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Val
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10- hexachloro-1, 7- epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES <input checked="" type="radio"/> NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES <input checked="" type="radio"/> NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES <input checked="" type="radio"/> NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES <input checked="" type="radio"/> NO
<b>D016</b> 2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	YES <input checked="" type="radio"/> NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypr opionic acid.)	1.0	YES <input checked="" type="radio"/> NO

Inorganic Wastes		Characteristic Level (ppm)		Actual Value	Organic Toxicity Wastes		Characteristic Level (ppm)		Actual Value
D018	(Benzene)	0.5	YES NO	_____	D031	(Heptachlor (and its hydroxide)	0.008	YES NO	_____
D019	(Carbon Tetrachloride)	0.5	YES NO	_____	D032	(Hexachlorobenzene)	0.13	YES NO	_____
D020	(Chlordane)	0.03	YES NO	_____	D033	(Hexachlorobutadiene)	0.5	YES NO	_____
D021	(Chlorobenzene)	100.0	YES NO	_____	D034	(Hexachloroethane)	3.0	YES NO	_____
D022	(Chloroform)	6.0	YES NO	_____	D035	(Methyl ethyl ketone)	200.0	YES NO	_____
D023	(o-Cresol)	200.0	YES NO	_____	D036	(Nitrobenzene)	2.0	YES NO	_____
D024	(m-Cresol)	200.0	YES NO	_____	D037	(Pentachlorophenol)	100.0	YES NO	_____
D025	(p-Cresol)	200.0	YES NO	_____	D038	(Pyridine)	5.0	YES NO	_____
D026	(Cresol)	200.0	YES NO	_____	D039	(Tetrachlorethylene)	0.7	YES NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES NO	_____	D040	(Trichlorethylene)	0.5	YES NO	_____
D028	(1,2-Dichloroethane)	0.5	YES NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES NO	_____	D043	(Vinyl chloride)	0.2	YES NO	_____

12

12. You must initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: [Signature]

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

13. Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** I hereby certify that the information on this form is true and correct to the best of my knowledge and belief. I understand that this information is used for regulatory purposes and that I am responsible for its accuracy.

Signature: Jerry L. Covey JERRY L. COVEY Mrs. Connel Meas

**CyanoKEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 000000

W22422

1/55

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WAS  
STREAM TO: Approvals Laboratory, CyanoKEM  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, plastic container Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): 5-gal poly container

Visual Description: clear liquid in 5 gal poly container

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5959

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	NA	Barium	NA	Cadmium	NA	Chromium	NA	Chromium (+6)	NA	Chromium Total	NA
Cobalt	+	Copper	+	Lead	+	Lithium	+	Mercury	+	Nickel	+
Silver	+	Zinc	+	Selenium	+	Total Cyanides	+	Total Sulfides	+	Iron	+

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1-5 gal container

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☐ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power fail rate, vacuum tankers, etc.

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

Telephone: (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethanonaphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

2 Check Yes and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

3 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION

Signature

*[Signature]*

JERRY L. COVEY

*[Signature]*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82912

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PLEASE SUBMIT THE COMPLETED FORM AND  
A 16 TO 32 OUNCE SAMPLE OF THE WASTE  
STREAM TO: Approvals Laboratory, CyanokEM  
12381 Schaefer Hwy, Detroit, MI 48227

**NOTE:** All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, debris, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): none 0002, 0007, 0010

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive (Corrosive) Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: yellow, oily liquid, debris in a plating shop

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "ppm" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>+</u>	Copper	<u>+</u>	Lead	<u>+</u>	Lithium	<u>+</u>	Mercury	<u>+</u>	Nickel	<u>+</u>
Silver	<u>+</u>	Zinc	<u>+</u>	Selenium	<u>+</u>	Total Cyanides	<u>+</u>	Total Sulfides	<u>+</u>	Iron	<u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**Transportation Equipment Requirements:** \_\_\_\_\_

**11** Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:** Ken Marks

**Telephone:** (316)268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

12381 Schaefer Highway  
Telecopy (313) 931-5020

Docket # 48227 (313) 931-1850  
EPA Identification # M0011992

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES

NO

YES

NO

YES

NO

### Metal Wastes

Characteristic Level (ppm)

Actual Value

<b>D004</b> (Arsenic)	5.0	YES	NO	_____
<b>D005</b> (Barium)	100.0	YES	NO	_____
<b>D006</b> (Cadmium)	1.0	YES	NO	_____
<b>D007</b> (Chromium)	5.0	YES	NO	_____
<b>D008</b> (Lead)	5.0	YES	NO	_____
<b>D009</b> (Mercury)	0.2	YES	NO	_____
<b>D010</b> (Selenium)	1.0	YES	NO	_____
<b>D011</b> (Silver)	5.0	YES	NO	_____

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

Actual Value

<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES	NO	_____
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES	NO	_____
<b>D015</b> Toxaphene (C <sub>12</sub> H <sub>10</sub> Cl <sub>11</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES	NO	_____
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

Check Yes and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

**3** Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** I hereby certify that the information on this form is true and accurate and that I am authorized to provide this information regarding my own or my employer's waste.

Signature

*Jerry L. Covey*

Date

JERRY L. COVEY

Date

*Mrs. Comp. Meas*

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	( NO )
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	( YES )	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	( NO )

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES / NO
<b>D005</b> (Barium)	100.0	YES / NO
<b>D006</b> (Cadmium)	1.0	YES / NO
<b>D007</b> (Chromium)	5.0	YES / NO
<b>D008</b> (Lead)	5.0	YES / NO
<b>D009</b> (Mercury)	0.2	YES / NO
<b>D010</b> (Selenium)	1.0	YES / NO
<b>D011</b> (Silver)	5.0	YES / NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES / NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES / NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES / NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES / NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES / NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES / NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor) (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: JS

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION**

I hereby certify that all of the waste described on this form is in fact the waste described on this form and that it is not a mixture or a solution of two or more wastes. I have attached to this form a copy of the manifest and a copy of the waste analysis report.

Signature

Jerry L. Covey

Date

JERRY L. COVEY

Date

John Compt Mea

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82700

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12381 Schaefer Hwy, Detroit, MI 48227

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

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**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid in a tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check % or ppm. If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:** Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82811

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM  
A 16 TO 32 OUNCE SAMPLE OF THE W  
STREAM TO: Approvals Laboratory, Cyanol  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: sludge, debris in floor pit Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70° ☒ Solid Chunks ☐ Solid Monolith ☒ Sludge ☐ Liquid Other (explain):

Visual Description: brown sludge, debris in a floor pit

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5

**4 Chemical Composition**

Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: NA pH: 8.9

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic NA

Barium NA

Cadmium NA

Chromium NA

Chromium (+6) NA

Chromium Total NA

Cobalt /

Copper /

Lead /

Lithium /

Mercury /

Nickel /

Silver /

Zinc /

Selenium /

Total Cyanides /

Total Sulfides /

Iron /

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA

Organics NA

Phenols NA

Acids NA

Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_

PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: approx. 6' x 10' pit

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

**11** Provide the name and telephone number of the individual responsible for scheduling waste shipments

**Scheduling Contact:** Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	YES	NO	Actual Value
<b>D004</b> (Arsenic)	5.0	YES	NO	_____
<b>D005</b> (Barium)	100.0	YES	NO	_____
<b>D006</b> (Cadmium)	1.0	YES	NO	_____
<b>D007</b> (Chromium)	5.0	YES	NO	_____
<b>D008</b> (Lead)	5.0	YES	NO	_____
<b>D009</b> (Mercury)	0.2	YES	NO	_____
<b>D010</b> (Selenium)	1.0	YES	NO	_____
<b>D011</b> (Silver)	5.0	YES	NO	_____

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

D012	D013	D014	D015	D016	D017	Actual Value
Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	Toxaphene (C <sub>12</sub> H <sub>16</sub> Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	_____
0.02	0.4	10.0	0.5	10.0	1.0	_____
YES	YES	YES	YES	YES	YES	_____
NO	NO	NO	NO	NO	NO	_____

Inorganic Toxicity Wastes				Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes				Characteristic Level (ppm)	Actual Value
D001	(Benzene)	0.5	YES	NO	_____	D031	(Heptachlor)	0.008	YES	NO	_____
D002	(Carbon Tetrachloride)	0.5	YES	NO	_____	D032	(Hexachlorobenzene)	0.13	YES	NO	_____
D003	(Chlordane)	0.03	YES	NO	_____	D033	(Hexachlorobutadiene)	0.5	YES	NO	_____
D021	(Chlorobenzene)	100.0	YES	NO	_____	D034	(Hexachloroethane)	3.0	YES	NO	_____
D022	(Chloroform)	6.0	YES	NO	_____	D035	(Methyl ethyl ketone)	200.0	YES	NO	_____
D023	(o-Cresol)	200.0	YES	NO	_____	D036	(Nitrobenzene)	2.0	YES	NO	_____
D024	(m-Cresol)	200.0	YES	NO	_____	D037	(Pentachlorophenol)	100.0	YES	NO	_____
D025	(p-Cresol)	200.0	YES	NO	_____	D038	(Pyridine)	5.0	YES	NO	_____
D026	(Cresol)	200.0	YES	NO	_____	D039	(Tetrachlorethylene)	0.7	YES	NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040	(Trichlorethylene)	0.5	YES	NO	_____
D028	(1,2-Dichloroethane)	0.5	YES	NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES	NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043	(Vinyl chloride)	0.2	YES	NO	_____

12

Circle "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** I hereby certify that all information submitted on this and all attached documents contains true and accurate descriptions of the waste, and that all relevant information regarding known or suspected hazards in the possession of the generator have been disclosed.

Signature

*Jerry L. Covey*

Name

JERRY L. COVEY

Title

*Mgr. Control Area*

**CyanokEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82815

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

**NOTE:**W 22428  
93018  
11c 4155PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WA  
STREAM TO: Approvals Laboratory, Cyanok  
12381 Schaefer Hwy, Detroit, MI 48227**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid sludge, debris, exhaust piping, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002, D004, D007, C010 Copper

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic OxidizerAre filters present: yes ☐ no ☒Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☒ Sludge ☐ Liquid Other (explain): Visual Description: dk. red sticky sludge, debris in plating tank w/ exhaust pipes**American NuKEM Representative:**☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818 0900 ☐ Southfield, MI (313) 559-5555

present. Do not use words such as "unknown" or "not available."

Specific Gravity: NA pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>  </u>	Copper	<u>  </u>	Lead	<u>  </u>	Lithium	<u>  </u>	Mercury	<u>  </u>	Nickel	<u>  </u>
Silver	<u>  </u>	Zinc	<u>  </u>	Selenium	<u>  </u>	Total Cyanides	<u>  </u>	Total Sulfides	<u>  </u>	Iron	<u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components:   

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials    Pathogens    Etiological Agents    Pesticides   

PCB's    PBB's    Dioxins    Radioactive Materials   

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions:   

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight)    pounds ☒ Bulk ☐ Other:   

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power fail gate, vacuum tankers, etc.

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

**11** Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:** Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

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A separate WSCR must be completed for each waste sample sent to CyanoKEM.

Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

Remove the pull-off label from the front of this form and attach it to your sample container.

Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>01</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	<input checked="" type="radio"/> NO
<b>02</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	<input checked="" type="radio"/> YES	NO
<b>03</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	<input checked="" type="radio"/> NO

Characteristic Wastes	Characteristic Level (ppm)	YES	NO	Actual Value
<b>04</b> (Arsenic)	5.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>05</b> (Barium)	100.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>06</b> (Cadmium)	1.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>07</b> (Chromium)	5.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>08</b> (Lead)	5.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>09</b> (Mercury)	0.2	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>10</b> (Selenium)	1.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>11</b> (Silver)	5.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	YES	NO	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>D016</b> 2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: JLC

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION

Signature of person certifying the waste is as follows:

Amy L. Covey

JERRY L. COVEY

W. L. Campbell

**CyanoKEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82002

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

W 22432  
93020  
11a 2/53

PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WA  
STREAM TO: Approvals Laboratory, CyanoK  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Caustic solution, debris, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: dk. brown liquid, debris, plating tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5

**4 Chemical Composition**

Check "%," or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 12

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:**

If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6 List any special handling instructions for the materials that are known to be present.**

Indicate any special handling instructions: \_\_\_\_\_

**7 Provide best available figures.**

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8 Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.**

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9 Please provide your standard industrial code in the space provided.**

Standard Industrial Code (SIC): 4011

10

Give details of special requirements, such as power, tail gate, vacuum tankers, etc.

### Transportation Equipment Requirements:

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (316) 268-9490

## GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

## SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES

NO

YES

NO

YES

NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

Actual

<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethanonaphthalene.)	0.02	YES	NO	_____
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES	NO	_____
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
<b>D016</b>	2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES	NO	_____
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor) (and its hydroxide)	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. do not authorize CyanoKEM to make corrections. WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** I hereby certify that all information entered in this and all attached documents contains true and accurate description of the waste material and all relevant information known or expected hazards in the presence of this waste material.

Signature *Jerry L. Covey*

Name JERRY L. COVEY

Date *Mar 10 1988*

Inorganic Toxicity Wastes				Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes				Characteristic Level (ppm)	Actual Value
D001	(Benzene)	0.5	YES	NO	_____	D031	(Heptachlor)	0.008	YES	NO	_____
D002	(Carbon Tetrachloride)	0.5	YES	NO	_____	D032	(Hexachlorobenzene)	0.13	YES	NO	_____
D003	(Chlordane)	0.03	YES	NO	_____	D033	(Hexachlorobutadiene)	0.5	YES	NO	_____
D021	(Chlorobenzene)	100.0	YES	NO	_____	D034	(Hexachloroethane)	3.0	YES	NO	_____
D022	(Chloroform)	6.0	YES	NO	_____	D035	(Methyl ethyl ketone)	200.0	YES	NO	_____
D023	(o-Cresol)	200.0	YES	NO	_____	D036	(Nitrobenzene)	2.0	YES	NO	_____
D024	(m-Cresol)	200.0	YES	NO	_____	D037	(Pentachlorophenol)	100.0	YES	NO	_____
D025	(p-Cresol)	200.0	YES	NO	_____	D038	(Pyridine)	5.0	YES	NO	_____
D026	(Cresol)	200.0	YES	NO	_____	D039	(Tetrachlorethylene)	0.7	YES	NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040	(Trichlorethylene)	0.5	YES	NO	_____
D028	(1,2-Dichloroethane)	0.5	YES	NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES	NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043	(Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** I hereby certify that I am the person who submitted this form and all attached documents, containing true and accurate information, and that I am not aware of any false or misleading information regarding known or suspected hazards in the possession of the generator or handler described.

Signature

*Jerry L. Covey*

Name

JERRY L. COVEY

Title

*Waste Compliance Manager*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82909

**NOTE:** All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, debris, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup

DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760

Packing Group: II Special Provisions:

EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: dk. green liquid, debris in plating tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of all other significant waste streams, including quantities, chemical composition, and handling instructions.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

Telephone: (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
 CyanoKEM Inc.  
 12381 Schaefer Highway  
 Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1, 1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO
<b>D015</b> Toxaphene (C <sub>12</sub> H <sub>10</sub> Cl <sub>11</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)		Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)		Actual Value
D018 (Benzene)	0.5	YES NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES NO	_____
D019 (Carbon Tetrachloride)	0.5	YES NO	_____	D032 (Hexachlorobenzene)	0.13	YES NO	_____
D020 (Chlordane)	0.03	YES NO	_____	D033 (Hexachlorobutadiene)	0.5	YES NO	_____
D021 (Chlorobenzene)	100.0	YES NO	_____	D034 (Hexachloroethane)	3.0	YES NO	_____
D022 (Chloroform)	6.0	YES NO	_____	D035 (Methyl ethyl ketone)	200.0	YES NO	_____
D023 (o-Cresol)	200.0	YES NO	_____	D036 (Nitrobenzene)	2.0	YES NO	_____
D024 (m-Cresol)	200.0	YES NO	_____	D037 (Pentachlorophenol)	100.0	YES NO	_____
D025 (p-Cresol)	200.0	YES NO	_____	D038 (Pyridine)	5.0	YES NO	_____
D026 (Cresol)	200.0	YES NO	_____	D039 (Tetrachlorethylene)	0.7	YES NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES NO	_____	D040 (Trichlorethylene)	0.5	YES NO	_____
D028 (1,2-Dichloroethane)	0.5	YES NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES NO	_____	D043 (Vinyl chloride)	0.2	YES NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** I certify that the information provided on this form is true and correct to the best of my knowledge and belief. I understand that this form is a legal document and that any false information provided may result in civil or criminal penalties.

Signature: *[Signature of Jerry L. Covey]*

JERRY L. COVEY

Signature: *[Signature of Maj. Comp. Meas]*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 99694

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 10381 Selkirk Hwy, Detroit, MI 48227

**NOTE:** All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 11 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number - If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Environmental Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPC1 Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Caustic Solid, Metal debris, Plating Tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: One Time Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive Solid, n.o.s. DOT Hazard Class: 8 UN/NA # UN1759  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☐ Liquid Other (explain): powder

Visual Description: white-yellow solids attached to inside of tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

#### 4. Chemical Composition

Check “%” or “ppm.” If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as “trace” or “present.” Do not use words such as “unknown” or “not available.”

Specific Gravity: NA      pH:           

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	NA	Barium	NA	Cadmium	NA	Chromium	NA	Chromium (+6)	NA	Chromium Total	NA
Cobalt		Copper		Lead		Lithium		Mercury		Nickel	
Silver		Zinc		Selenium		Total Cyanides		Total Sulfides		Iron	

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA      Organics NA      Phenols NA      Acids NA      Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

**Other Components:**

### 5 Other Components and Constituents:

If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

## 6

List any special handling instructions for the materials that are known to be present.

**Indicate any special handling instructions:**

## 7

Provide best available figures.

**Approximate Amount of Waste Produced Annually:** one time cleanup **Amount on Hand:** 1 tank

## 8

Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

**Packaging for Shipment:** ☒ Drums (size) various gallons (weight)            pounds ☒ Bulk ☐ Other:           

## 9

Please provide your standard industrial code in the space provided.

**Standard Industrial Code (SIC):** 4011

10 Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contract and agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO		
<b>D005</b>	(Barium)	100.0	YES NO		
<b>D006</b>	(Cadmium)	1.0	YES NO		
<b>D007</b>	(Chromium)	5.0	YES NO		
<b>D008</b>	(Lead)	5.0	YES NO		
<b>D009</b>	(Mercury)	0.2	YES NO		
<b>D010</b>	(Selenium)	1.0	YES NO		
<b>D011</b>	(Silver)	5.0	YES NO		

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene)	0.02	YES NO		
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer)	0.4	YES NO		
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p methoxy phenyl) ethane)	10.0	YES NO		
<b>D015</b>	Toxaphene (Cio, H16, Cl8 Technical chlorinated camphene, 67-69 percent chlorine)	0.5	YES NO		
<b>D016</b>	2, 4-D, (2,4-Dichloro-phenoxyacetic acid)	10.0	YES NO		
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid)	1.0	YES NO		

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** I certify that the information provided on this form is true and correct to the best of my knowledge and belief, and that I am authorized to sign this form on behalf of the company generating or handling the waste.

Signature

*[Signature: Jerry L. Covey]*

JERRY L. COVEY

*[Signature: Mgr. Compl. Mca]*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 90097

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Environmental Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, plastic drum Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): 20 gal poly drum

Visual Description: It green liquid in poly drum

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1-20 gal poly drum

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☐ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as shipping, storage, handling, etc.

10 Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

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5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

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2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

### Actual Value

<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES	NO	_____
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES	NO	_____
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>16</sub> , Cl <sub>8</sub> technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
<b>D016</b>	2, 4-D, (2,4-Dichloro phenoxyacetic acid)	10.0	YES	NO	_____
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	_____
<b>D005</b>	(Barium)	100.0	YES NO	_____	_____
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	_____
<b>D007</b>	(Chromium)	5.0	YES NO	_____	_____
<b>D008</b>	(Lead)	5.0	YES NO	_____	_____
<b>D009</b>	(Mercury)	0.2	YES NO	_____	_____
<b>D010</b>	(Selenium)	1.0	YES NO	_____	_____
<b>D011</b>	(Silver)	5.0	YES NO	_____	_____

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

2 check Yes and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: JTC

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

3 Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** I certify that the information provided on this form is true and correct to the best of my knowledge and belief. I understand that this information is being provided to the Michigan Department of Natural Resources for their use in determining the appropriate waste management and disposal requirements for the waste described on this form. I understand that this information is being provided to the Michigan Department of Natural Resources for their use in determining the appropriate waste management and disposal requirements for the waste described on this form.

Signature: Terry L. Booy

TERRY L. COVEY

Mgt. Control Meas

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 87691

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the Generator Certification at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12211 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St. City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271- 4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, Plating tank, debris Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive liquid, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: green liquid, debris in plating tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>/</u>	Copper	<u>/</u>	Lead	<u>/</u>	Lithium	<u>/</u>	Mercury	<u>/</u>	Nickel	<u>/</u>
Silver	<u>/</u>	Zinc	<u>/</u>	Selenium	<u>/</u>	Total Cyanides	<u>/</u>	Total Sulfides	<u>/</u>	Iron	<u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

### Transportation Equipment Requirements:

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (313) 268-9490

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<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	
<b>D005</b>	(Barium)	100.0	YES NO	_____	
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	
<b>D007</b>	(Chromium)	5.0	YES NO	_____	
<b>D008</b>	(Lead)	5.0	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	1.0	YES NO	_____	
<b>D011</b>	(Silver)	5.0	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10- hexachloro-1, 7- epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa- chlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p- methoxy-phenyl) lethane.)	10.0	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>12</sub> H <sub>16</sub> Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4 D, (2,4-Dichloro- phenoxyacetic acid )	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypr opionic acid )	1.0	YES NO	_____	

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide))	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12 Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION

*Jerry L. Covey* JERRY L. COVEY *Mg, Control Mgmt*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82814

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 1381 Schofer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Acid solution, debris, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: dk. red liquid, debris in plating tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818 0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u> </u>	Copper <u> </u>	Lead <u> </u>	Lithium <u> </u>	Mercury <u> </u>	Nickel <u> </u>
Silver <u> </u>	Zinc <u> </u>	Selenium <u> </u>	Total Cyanides <u> </u>	Total Sulfides <u> </u>	Iron <u> </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10 Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

Telephone: (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.

2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.

3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.

4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

Remove the pull off label from the front of this form and attach it to your sample container.

Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	(NO)
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	(YES)	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	(NO)

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	50	YES NO	_____	
<b>D005</b>	(Barium)	1000	YES NO	_____	
<b>D006</b>	(Cadmium)	10	YES NO	_____	
<b>D007</b>	(Chromium)	50	YES NO	_____	
<b>D008</b>	(Lead)	50	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	10	YES NO	_____	
<b>D011</b>	(Silver)	50	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	100	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4-D, (2,4-Dichlorophenoxyacetic acid)	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid)	1.0	YES NO	_____	

				Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)		Actual Value
			NO	_____	D031 (Heptachlor (and its hydroxide)	0.008	YES NO	_____
		YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES NO	_____
		YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES NO	_____
L	20.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES NO	_____
D022	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES NO	_____
D023 (o-	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES NO	_____
D024 (m-Cres	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES NO	_____

12 Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the person responsible for the waste.

*Jerry L. Cover*

JERRY L. COVER

*M. Camp (Mea)*



# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82686

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12381 Schroeder Hwy, Detroit, MI 48227

### 1 Generator Information: Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Environmental Telephone (402) 271-4037 Fax

### 2 Broker Information: If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

### 3 Waste Description: Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Fuming Acid Solution, plastic drum Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive Liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: PG 11 Special Provisions:   
EPA Waste Number(s): D002

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): 20 gal poly drum

Visual Description: Dk green liquid in poly drum, fumes

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5901

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1 pH: 2

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>  </u>	Copper	<u>  </u>	Lead	<u>  </u>	Lithium	<u>  </u>	Mercury	<u>  </u>	Nickel	<u>  </u>
Silver	<u>  </u>	Zinc	<u>  </u>	Selenium	<u>  </u>	Total Cyanides	<u>  </u>	Total Sulfides	<u>  </u>	Iron	<u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: respirator, gloves

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1-20 gal poly drum

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☐ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of any other information that may be relevant to the management of the waste.

**Transportation Equipment Requirements:**

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

Telephone: (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

12381 Schaefer Highway  
Telecopy (313) 933-5020

Detroit, Michigan 48227 / (313) 933-1850  
EPA Identification # MJD-000011002

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

**D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))

YES ☒ NO ☐

**D002** (characteristic of corrosivity as defined in 40 CFR 261.22)

YES ☒ NO ☐

**D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES ☒ NO ☐

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D005</b> (Barium)	100.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D006</b> (Cadmium)	1.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D007</b> (Chromium)	5.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D008</b> (Lead)	5.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D009</b> (Mercury)	0.2	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D010</b> (Selenium)	1.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D011</b> (Silver)	5.0	YES <input checked="" type="radio"/> NO <input type="radio"/>

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene)	0.02	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D015</b> Toxaphene (C <sub>12</sub> H <sub>16</sub> Cl <sub>6</sub> Technical chlorinated camphene, 67-69 percent chlorine)	0.5	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES <input checked="" type="radio"/> NO <input type="radio"/>

Inorganic Wastes				Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes				Characteristic Level (ppm)	Actual Value
D018	(Benzene)	0.5	YES	NO	_____	D031	(Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019	(Carbon Tetrachloride)	0.5	YES	NO	_____	D032	(Hexachlorobenzene)	0.13	YES	NO	_____
D020	(Chlordane)	0.03	YES	NO	_____	D033	(Hexachlorobutadiene)	0.5	YES	NO	_____
D021	(Chlorobenzene)	100.0	YES	NO	_____	D034	(Hexachloroethane)	3.0	YES	NO	_____
D022	(Chloroform)	6.0	YES	NO	_____	D035	(Methyl ethyl ketone)	200.0	YES	NO	_____
D023	(o-Cresol)	200.0	YES	NO	_____	D036	(Nitrobenzene)	2.0	YES	NO	_____
D024	(m-Cresol)	200.0	YES	NO	_____	D037	(Pentachlorophenol)	100.0	YES	NO	_____
D025	(p-Cresol)	200.0	YES	NO	_____	D038	(Pyridine)	5.0	YES	NO	_____
D026	(Cresol)	200.0	YES	NO	_____	D039	(Tetrachlorethylene)	0.7	YES	NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040	(Trichlorethylene)	0.5	YES	NO	_____
D028	(1,2-Dichloroethane)	0.5	YES	NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES	NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043	(Vinyl chloride)	0.2	YES	NO	_____

2 Check Yes and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

3 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION: I certify that the information provided on this form is true and correct to the best of my knowledge and belief.

Signature

*[Signature]*

JERRY L. COVEY

*[Signature]*



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 00005

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

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PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 1221 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dudge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliances Measures Telephone (402) 271-4037 Fax \_\_\_\_\_

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, metal debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup Mick 0292  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions: \_\_\_\_\_  
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): \_\_\_\_\_

Visual Description: clear liquid, debris in plating tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329 9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5901

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power, tail gas, vacuum tankers, etc.

## Transportation Equipment Requirements:

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (313) 268-9490

## GENERAL INFORMATION FOR WSCR

Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.

2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.

3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.

4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

## SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.

2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	50	YES NO		
<b>D005</b>	(Barium)	1000	YES NO		
<b>D006</b>	(Cadmium)	10	YES NO		
<b>D007</b>	(Chromium)	50	YES NO		
<b>D008</b>	(Lead)	50	YES NO		
<b>D009</b>	(Mercury)	0.2	YES NO		
<b>D010</b>	(Selenium)	10	YES NO		
<b>D011</b>	(Silver)	50	YES NO		

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7 epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO		
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO		
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p methoxy phenyl) ethane.)	10.0	YES NO		
<b>D015</b>	Toxaphene (Cio, H10, Cl8 Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO		
<b>D016</b>	2, 4-D, (2,4-Dichloro-phenoxycetic acid.)	10.0	YES NO		
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO		

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide))	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

**12** Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

**13** Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
Known as: \_\_\_\_\_

Signature

*[Handwritten Signature: Jerry L. Covey]*

JERRY L. COVEY

*[Handwritten Signature: Mr. Comp. Mess]*

**CyanoKEM**

# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: **C- 82801**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

**NOTE:**

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PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanoKEM  
13291 Schoofers Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup Michigan Re 0591  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☐

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid in a tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "ppm" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_

PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Provide details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11

Provide the name and telephone number of the individual responsible for scheduling waste shipment.

**Scheduling Contact:** \_\_\_\_\_

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time, you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1, 1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO
<b>D015</b> Toxaphene (C10, H16, Cl8 Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes • Characteristic Level (ppm)				Actual Value	Organic Toxicity Wastes • Characteristic Level (ppm)				Actual Value
D018	(Benzene)	0.5	YES NO	_____	D031	(Heptachlor (and its hydroxide)	0.008	YES NO	_____
D019	(Carbon Tetrachloride)	0.5	YES NO	_____	D032	(Hexachlorobenzene)	0.13	YES NO	_____
D020	(Chlordane)	0.03	YES NO	_____	D033	(Hexachlorobutadiene)	0.5	YES NO	_____
D021	(Chlorobenzene)	100.0	YES NO	_____	D034	(Hexachloroethane)	3.0	YES NO	_____
D022	(Chloroform)	6.0	YES NO	_____	D035	(Methyl ethyl ketone)	200.0	YES NO	_____
D023	(o-Cresol)	200.0	YES NO	_____	D036	(Nitrobenzene)	2.0	YES NO	_____
D024	(m-Cresol)	200.0	YES NO	_____	D037	(Pentachlorophenol)	100.0	YES NO	_____
D025	(p-Cresol)	200.0	YES NO	_____	D038	(Pyridine)	5.0	YES NO	_____
D026	(Cresol)	200.0	YES NO	_____	D039	(Tetrachlorethylene)	0.7	YES NO	_____
D027	(1,4-Dichlorobenzene)	7.5	YES NO	_____	D040	(Trichlorethylene)	0.5	YES NO	_____
D028	(1,2-Dichloroethane)	0.5	YES NO	_____	D041	(2,4,5-Trichlorophenol)	400.0	YES NO	_____
D029	(1,1-Dichloroethylene)	0.7	YES NO	_____	D042	(2,4,6-Trichlorophenol)	2.0	YES NO	_____
D030	(2,4-Dinitrotoluene)	0.13	YES NO	_____	D043	(Vinyl chloride)	0.2	YES NO	_____

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

3 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION

Signature

*[Signature]*

JERRY L. COVEY

*[Signature]*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82810

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

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PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup Michigan Regulated Waste 0291  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid, debris in plating tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11

Provide the name and telephone number of the individual responsible for scheduling waste shipment.

**Scheduling Contact:** Ken Marks**Telephone:** (316) 268-9490**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time, you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** The undersigned hereby certifies that the information furnished on this form is true and correct and that the waste is as described and is being managed in accordance with the requirements of the Michigan Department of Natural Resources and the Environmental Protection Agency.

Signature

*Jerry L. Cover*

JERRY L. COVER

*Mrs. Connel Meas*

**CyanokEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: **C- 82806****NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

W22433  
93016  
110 3155

PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WAS  
STREAM TO: Approvals Laboratory, CyanokEM  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # NE D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup Michigan 029L  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid in a plating tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

4

**Chemical Composition**

Check ☐ or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

5

**Other Components and Constituents:**

If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

6

List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

7

Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

8

Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

9

Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11

Provide the name and telephone number of the individual responsible for scheduling waste shipment.

**Scheduling Contact:** \_\_\_\_\_

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

**ADDENDUM TO PROFILE**

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

**Characteristic Wastes**

<b>D001</b> (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b> (characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b> (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10- hexachloro-1, 7- epoxy- 1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypr opionic acid.)	1.0	YES NO

Priority Wastes	Characteristic Level (ppm)	Actual Value	Priority Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide)	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

**12** Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

**13** Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION** The undersigned hereby certifies that the information on this form is true and correct to the best of his/her knowledge and belief, and that the information is true and correct to the best of his/her knowledge and belief.

Signature: *Jerry L. Covey*

Name: JERRY L. COVEY

Title: *Off. Compl. Mgr.*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82696

4-55 119.

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

w22432  
93017  
10A 4/55

PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WAS  
STREAM TO: Approvals Laboratory, CyanokEM  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number -- If you are a broker, service company, or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliances Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Michigan Regulated Waste  
Plating Shop Cleanup  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid, debris in plating tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329 9690 ☐ Mahwah, NJ (201) 818 0900 ☐ Southfield, MI (313) 559-59

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**Transportation Equipment Requirements:**

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
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4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your
- WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.
5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	
<b>D005</b>	(Barium)	100.0	YES NO	_____	
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	
<b>D007</b>	(Chromium)	5.0	YES NO	_____	
<b>D008</b>	(Lead)	5.0	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	1.0	YES NO	_____	
<b>D011</b>	(Silver)	5.0	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Val	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane.)	10.0	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>9</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO	_____	

	0.5	YES	NO		D031 (Heptachlor (and its hydroxide)	0.008	YES	NO	
D019 (Carbon Tetrachloride)	0.5	YES	NO		D032 (Hexachlorobenzene)	0.13	YES	NO	
D020 (Chlordane)	0.03	YES	NO		D033 (Hexachlorobutadiene)	0.5	YES	NO	
D021 (Chlorobenzene)	100.0	YES	NO		D034 (Hexachloroethane)	3.0	YES	NO	
D022 (Chloroform)	6.0	YES	NO		D035 (Methyl ethyl ketone)	200.0	YES	NO	
D023 (o-Cresol)	200.0	YES	NO		D036 (Nitrobenzene)	2.0	YES	NO	
D024 (m-Cresol)	200.0	YES	NO		D037 (Pentachlorophenol)	100.0	YES	NO	
D025 (p-Cresol)	200.0	YES	NO		D038 (Pyridine)	5.0	YES	NO	
D026 (Cresol)	200.0	YES	NO		D039 (Tetrachlorethylene)	0.7	YES	NO	
D027 (1,4-Dichlorobenzene)	7.5	YES	NO		D040 (Trichlorethylene)	0.5	YES	NO	
D028 (1,2-Dichloroethane)	0.5	YES	NO		D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	
D029 (1,1-Dichloroethylene)	0.7	YES	NO		D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	
D030 (2,4-Dinitrotoluene)	0.13	YES	NO		D043 (Vinyl chloride)	0.2	YES	NO	

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSC corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** The information on this form was obtained from the waste generator or handler and is true and correct. The generator or handler is responsible for the accuracy of the information provided. The generator or handler is responsible for the accuracy of the information provided.

Signature

*Jerry L. Covey*

Name

JERRY L. COVEY

Title

*Major Const. Mgr.*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82692

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

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PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM  
12281 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company, or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St. City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, metal debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none W0007

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): metal tank

Visual Description: clear liquid in metal tank w/ debris

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "ppm" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**Transportation Equipment Requirements:** \_\_\_\_\_

11 \_\_\_\_\_ the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:** \_\_\_\_\_ **Ken Marks** \_\_\_\_\_ **Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

**Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227**

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES NO

YES NO

YES NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane)	10.0	YES NO
<b>D015</b> Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor) (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12 Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION: I hereby certify that the information on this form is true and correct to the best of my knowledge and belief, and that I am authorized to sign this form on behalf of the company generating or handling the waste.

Signature

*Jerry L. Covey*

JERRY L. COVEY

*Mrs. Conal Meas*

**CyanokEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: **C- 82807****NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

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PLEASE SUBMIT THE COMPLETED FORM ALONG WITH A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9413  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup Michigan Regulated Waste 0296  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: cloudy liquid w/ oily top layer in plating tank

**American NuKEM Representative.**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 554-1000

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_

PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**ation Equipment Requirements:**

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:**

(316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
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WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1, 2, 3, 4, 5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1, 1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO
<b>D015</b> Toxaphene (Cio, Hno, Clo Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12 Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSC corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION: I certify that the information provided on this form is true and correct to the best of my knowledge and belief. I understand that this form is a legal document and that any false information provided may result in civil or criminal penalties.

Signature: *Jerry L. Cover*

JERRY L. COVER

Signature: *Mgt. Control Meas*

EPA Identification Number: MID098011992

Waste Lab Control Number: C- 00013

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

## NOTE:

W 22437  
93016  
11/19 4/55 11/2 11/55

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12301 Schaefer Hwy, Detroit, MI 48227

### 1 Generator Information: Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (316) 271-4037 Fax

### 2 Broker Information: If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

### 3 Waste Description: Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral Solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: plating shop cleanup Michigan Regulated Waste 029L  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none 029L

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid, debris in a plating tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

present. Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power, tail gate, vacuum tankers, etc.

**10**

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:****11**

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

Telephone: (313) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
 CyanoKEM Inc.  
 12381 Schaefer Highway  
 Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES

NO

YES

NO

YES

NO

### Metal Wastes

Characteristic Level (ppm)

Actual Value

- | Metal Wastes           | Characteristic Level (ppm) | YES | NO | Actual Value |
|------------------------|----------------------------|-----|----|--------------|
| <b>D004</b> (Arsenic)  | 5.0                        | YES | NO |              |
| <b>D005</b> (Barium)   | 100.0                      | YES | NO |              |
| <b>D006</b> (Cadmium)  | 1.0                        | YES | NO |              |
| <b>D007</b> (Chromium) | 5.0                        | YES | NO |              |
| <b>D008</b> (Lead)     | 5.0                        | YES | NO |              |
| <b>D009</b> (Mercury)  | 0.2                        | YES | NO |              |
| <b>D010</b> (Selenium) | 1.0                        | YES | NO |              |
| <b>D011</b> (Silver)   | 5.0                        | YES | NO |              |

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

Actual Value

- | Herbicide/Pesticide Wastes   | Characteristic Level (ppm) | YES | NO | Actual Value |
|--|----------------------------|-----|----|--------------|
| <b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.) | 0.02                       | YES | NO |              |
| <b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)  | 0.4                        | YES | NO |              |
| <b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy phenyl) ethane.)  | 10.0                       | YES | NO |              |
| <b>D015</b> Toxaphene (C10, H16, Cl8 Technical chlorinated camphene, 67-69 percent chlorine.)  | 0.5                        | YES | NO |              |
| <b>D016</b> 2, 4-D, (2,4-Dichloro phenoxyacetic acid.)   | 10.0                       | YES | NO |              |
| <b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)   | 1.0                        | YES | NO |              |

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: JLC

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the person who generated, stored, transported, handled, or handled the waste.

*Jerry L. Covey*

JERRY L. COVEY

*Mr. Comp. Mee*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82805

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

W22431  
93016  
1101  
2/551:2

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
 Address 1416 Dodge St City Omaha State NE Zip Code 68179  
 Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
 Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
 Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Neutral solution, brownish-white residue, debris in tank Land Ban Notification Required? ☐ Yes ☒ No  
 (If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup HA2 Waste Liquid, nos CLASS 9 NA3025  
 DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
 Packing Group: NA Special Provisions:   
 EPA Waste Number(s): none 10007

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☐

Physical State at 70° ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: cloudy liquid, brown-white residue, debris in tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>  </u>	Copper	<u>  </u>	Lead	<u>  </u>	Lithium	<u>  </u>	Mercury	<u>  </u>	Nickel	<u>  </u>
Silver	<u>  </u>	Zinc	<u>  </u>	Selenium	<u>  </u>	Total Cyanides	<u>  </u>	Total Sulfides	<u>  </u>	Iron	<u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power, tail gate, vacuum tankers, etc.

10 Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

12381 Schaefer Highway  
Telecopy (313) 933 5070

United States Patent 48227 (313) 933 1850  
EPA Identification # 33-000000000

C# \_\_\_\_\_

APPROVAL W# \_\_\_\_\_

ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

Characteristic Wastes

D001	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	(NO)
D002	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	(NO)
D003	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	(NO)

Metal Wastes	Characteristic Level (ppm)	Actual Value
D004 (Arsenic)	5.0	YES NO
D005 (Barium)	100.0	YES NO
D006 (Cadmium)	1.0	YES NO
D007 (Chromium)	5.0	YES NO
D008 (Lead)	5.0	YES NO
D009 (Mercury)	0.2	YES NO
D010 (Selenium)	1.0	YES NO
D011 (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes Characteristic Level (ppm) Actual Value

D012	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene)	0.02	YES	NO	_____
D013	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer)	0.4	YES	NO	_____
D014	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane)	10.0	YES	NO	_____
D015	Toxaphene (C <sub>12</sub> H <sub>10</sub> Cl <sub>11</sub> Technical chlorinated camphene, 67-69 percent chlorine)	0.5	YES	NO	_____
D016	2, 4-D, (2,4-Dichloro-phenoxyacetic acid)	10.0	YES	NO	_____
D017	2, 4, 5-TP Silvex (2,4, 6-Trichlorophenoxypr	1.0	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

**GENERATOR CERTIFICATION:** I hereby certify that the information furnished on this form is true and correct. I understand that this form is subject to review and audit by the appropriate authority.

Signature: *Jerry L. Covey*

JERRY L. COVEY

*For Camp M...*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82697

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

## NOTE:

W 22424  
93018  
11b 4/55

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM  
12931 Schroeder Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Weak acid solution, debris, plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup Mich 029L  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☐

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: dk green liquid, greenish-white solid, debris in plating tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check % or ppm. If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 6-7

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

### Transportation Equipment Requirements:

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (316) 268-9490

### GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction : resubmitted for final approval. Alternately, to save t you should authorize CyanoKEM to correct your WSCR checking "Yes" and signing in Item 11 above. All cor tions will be consistent with the results of sample cl acterization and/or regulatory requirements. The m rapid waste approval will be achieved by authoriz CyanoKEM to make your WSCR corrections. You v receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

### SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value
<b>D004</b>	(Arsenic)	50	YES NO	_____
<b>D005</b>	(Barium)	1000	YES NO	_____
<b>D006</b>	(Cadmium)	10	YES NO	_____
<b>D007</b>	(Chromium)	50	YES NO	_____
<b>D008</b>	(Lead)	50	YES NO	_____
<b>D009</b>	(Mercury)	0.2	YES NO	_____
<b>D010</b>	(Selenium)	10	YES NO	_____
<b>D011</b>	(Silver)	50	YES NO	_____

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	YES	NO	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES	NO	_____
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES	NO	_____
<b>D015</b> Toxaphene (Cio, Hho, Cla Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
<b>D016</b> 2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	YES	NO	_____
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide)	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12 Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13 Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
I hereby certify that the information provided on this form is true and correct.

Signature: *Jerry L. Covey*

JERRY L. COVEY

*Max Campbell*

**CyanokEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82004

W 22459

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

11b 21:2 1 sol. b  
93014

PLEASE SUBMIT THE COMPLETED FORM A  
A 16 TO 32 OUNCE SAMPLE OF THE WASTE  
STREAM TO: Approvals Laboratory, CyanokEM  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St. City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Cyanide solution, plating tank, debris Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Cyanide solutions DOT Hazard Class: 6.1 UN/NA # UN1935  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002, D003, D0011, D0010, D0010, D0010

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable (Reactive) Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):Visual Description: brown liquid, debris in plating tank**American NuKEM Representative:**☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5910

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 13

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☒ Yes ☐ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials NA Pathogens NA Etiological Agents NA Pesticides NA  
PCB's    PBB's    Dioxins    Radioactive Materials   

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power fail gate, vacuum tankers, etc.

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

**11** Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:** Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353 5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227



An American NuKEM Company

12381 Schaefer Highway  
Telecopy (313) 933-1500

12381 Schaefer Highway, P227  
(313) 933-1850  
EPA Identification # M0000001000

C# \_\_\_\_\_

APPROVAL W# \_\_\_\_\_

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

D012	Endrin (1, 2, 3, 4, 10, 10- hexachloro-1, 7- epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene )	0.02	YES	NO	_____
D013	Lindane (1,2,3,4,5, 6-Hexa- chlorocyclohexane, gamma isomer )	0.4	YES	NO	_____
D014	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p- methoxy-phenyl) lethane )	10.0	YES	NO	_____
D015	Toxaphene (C <sub>12</sub> H <sub>10</sub> Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	_____
D016	2, 4-D, (2,4-Dichloro- phenoxyacetic acid.)	10.0	YES	NO	_____
D017	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypr opionic acid )	1.0	YES	NO	_____

### Metal Wastes

Characteristic Level (ppm)

Actual Value

<b>D004</b>	(Arsenic)	5.0	YES	NO	_____
<b>D005</b>	(Barium)	100.0	YES	NO	_____
<b>D006</b>	(Cadmium)	1.0	YES	NO	_____
<b>D007</b>	(Chromium)	5.0	YES	NO	_____
<b>D008</b>	(Lead)	5.0	YES	NO	_____
<b>D009</b>	(Mercury)	0.2	YES	NO	_____
<b>D010</b>	(Selenium)	1.0	YES	NO	_____
<b>D011</b>	(Silver)	5.0	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide))	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your record. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JS*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR/OWNER/APPROPRIATE PERSONNEL

Signature

*Jerry L. Covey*

JERRY L. COVEY

*Mgt. Control Meas.*

**CyaNoKEM**

# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: **C- 82804****W 22458****NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

**93013**  
**11d****2/55**

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, Cymab Ltd., 1931 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Cyanide solution, debris, greenish-white residue in tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Cyanide solutions DOT Hazard Class: 6.1 UN/NA # UN1935  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002, D003

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable / Reactive / Corrosive / Toxic / Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°F: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: amber liquid, greenish-white residue, debris in tank

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 551-597

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 13

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>+</u>	Copper <u>+</u>	Lead <u>+</u>	Lithium <u>+</u>	Mercury <u>+</u>	Nickel <u>+</u>
Silver <u>+</u>	Zinc <u>+</u>	Selenium <u>+</u>	Total Cyanides <u>+</u>	Total Sulfides <u>+</u>	Iron <u>+</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☒ Yes ☐ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** List details of special requirements such as power tail gate, vacuum tankers, etc.

10 Details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your
- WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.
5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO
<b>D005</b> (Barium)	100.0	YES NO
<b>D006</b> (Cadmium)	1.0	YES NO
<b>D007</b> (Chromium)	5.0	YES NO
<b>D008</b> (Lead)	5.0	YES NO
<b>D009</b> (Mercury)	0.2	YES NO
<b>D010</b> (Selenium)	1.0	YES NO
<b>D011</b> (Silver)	5.0	YES NO

Herbicide/Pesticide Wastes	Characteristic Level (ppm)	Actual Value
<b>D012</b> Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethanonaphthalene.)	0.02	YES NO
<b>D013</b> Lindane (1,2,3,4,5, 6-Hexachlorocyclohexane, gamma isomer.)	0.4	YES NO
<b>D014</b> Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO
<b>D015</b> Toxaphene (Cio, Hio, Cla Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO
<b>D016</b> 2, 4-D, (2,4-Dichlorophenoxyacetic acid.)	10.0	YES NO
<b>D017</b> 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

NOTE: Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
I hereby certify that the information provided on this form is true and correct.

Signature: *Jerry L. Covey*

JERRY L. COVEY

*Mr. Campbell*



# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 00000

W 22447 93013

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

## NOTE:

2 liquids debris  
118

PLEASE SUBMIT THE COMPLETED FORM WITH A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 10291 Schaefer Hwy, Detroit, MI 48227

### 1 Generator Information: Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

### 2 Broker Information: If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

### 3 Waste Description: Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Residue from plating tank Land Ban Notification Required? ☐ Yes ☒ No  
(If trade name is used, attach MSDS) R.Q. WASTE CYANIDES, inorganic, n.o.s.  
Process Producing Waste: Plating Shop Cleanup CLASS 6.1 PKG II UN158  
DOT Shipping Name: Nonregulated per 40 & 49 CFR DOT Hazard Class: NA UN/NA # NA  
Packing Group: NA Special Provisions:   
EPA Waste Number(s): none 0 F008 D003, D006

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☐ Liquid Other (explain):

Visual Description yellow-white solid residue inside tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace," "present." Do not use words such as "unknown" or "not available."

Specific Gravity: \_\_\_\_\_ pH: 10.5

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** List any other special requirements such as power tail gate, vacuum tankers, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:**

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone:

(316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
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4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
 CyanoKEM Inc.  
 12381 Schaefer Highway  
 Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	
<b>D005</b>	(Barium)	100.0	YES NO	_____	
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	
<b>D007</b>	(Chromium)	5.0	YES NO	_____	
<b>D008</b>	(Lead)	5.0	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	1.0	YES NO	_____	
<b>D011</b>	(Silver)	5.0	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO	_____	

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Val
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide)	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSC corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
I hereby certify that the information provided on this form is true and correct.

Signature

*[Signature]*

JERRY L. COVEY

*[Signature]*

**CyanoKEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.

EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82003 W 22451

**NOTE:**

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

93014  
11A

2/55

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, General  
12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Alkaline liquid, plastic drum Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive Liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D003 D003 F001 D007 0010

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable ☐ Reactive ☒ Corrosive ☐ Toxic ☐ Oxidizer

Are filters present: yes ☐ no ☐

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear, bluish liquid in a 20 gal poly drum

**American NuKEM Representative:**

☐ Rock Hill, SC (803) 329 9690 ☐ Mahwah, NJ (201) 818 0900 ☐ Southfield, MI (313) 559 5900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 13

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total: <u>NA</u>
Cobalt <u>1</u>	Copper <u>1</u>	Lead <u>1</u>	Lithium <u>1</u>	Mercury <u>1</u>	Nickel <u>1</u>
Silver <u>1</u>	Zinc <u>1</u>	Selenium <u>1</u>	Total Cyanides <u>1</u>	Total Sulfides <u>1</u>	Iron <u>1</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1-20 gal poly drum

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☐ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

10 Give details of special requirements such as power tail gate, vacuum tankers, etc.

Transportation Equipment Requirements: \_\_\_\_\_

11 Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (316) 268-9490

### GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), is the appropriate permit(s) for the waste material(s) described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

### SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	(NO)
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	(YES)	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	(NO)

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	
<b>D005</b>	(Barium)	100.0	YES NO	_____	
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	
<b>D007</b>	(Chromium)	5.0	YES NO	_____	
<b>D008</b>	(Lead)	5.0	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	1.0	YES NO	_____	
<b>D011</b>	(Silver)	5.0	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy phenyl) lethane.)	10.0	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>12</sub> H <sub>16</sub> Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO	_____	

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)			
D018 (Benzene)	0.5	YES	NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____	D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____	D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____	D034 (Hexachloroethane)	3.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____	D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____	D036 (Nitrobenzene)	2.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____	D037 (Pentachlorophenol)	100.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____	D038 (Pyridine)	5.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____	D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____	D040 (Trichlorethylene)	0.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____	D043 (Vinyl chloride)	0.2	YES	NO	_____

**12** Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

**13** Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATE AND  
known to be a hazardous waste.

*Jerry L. Covey*

JERRY L. COVEY *Mgr. Compt. Mgmt.*



# WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82600 - W22457

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM 12331 Schaefer Hwy, Detroit, MI 48227

## NOTE:

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number - If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Alkaline liquid, plastic container Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Corrosive liquids, n.o.s. DOT Hazard Class: 8 UN/NA # UN1760  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002 - 0003, 1211

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive (Corrosive) Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☐ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain):

Visual Description: clear liquid in a 5 gal poly container

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

R.O WASTE CHANGED SOLUTION, n.o.s.  
CLASS 6.1 PKG II UN1735

**4. Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 13

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>  </u>	Copper <u>  </u>	Lead <u>  </u>	Lithium <u>  </u>	Mercury <u>  </u>	Nickel <u>  </u>
Silver <u>  </u>	Zinc <u>  </u>	Selenium <u>  </u>	Total Cyanides <u>  </u>	Total Sulfides <u>  </u>	Iron <u>  </u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1-5 gal container

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☐ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special treatments such as incineration, stabilization, etc.

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

### Transportation Equipment Requirements:

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

Scheduling Contact:

Ken Marks

Telephone: (316) 268-9490

### GENERAL INFORMATION FOR WSCR

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

### SAMPLE SUBMITTAL

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

### Metal Wastes

#### Characteristic Level (ppm)

#### Actual Value

<b>D004</b>	(Arsenic)	5.0	YES	NO	
<b>D005</b>	(Barium)	100.0	YES	NO	
<b>D006</b>	(Cadmium)	1.0	YES	NO	
<b>D007</b>	(Chromium)	5.0	YES	NO	
<b>D008</b>	(Lead)	5.0	YES	NO	
<b>D009</b>	(Mercury)	0.2	YES	NO	
<b>D010</b>	(Selenium)	1.0	YES	NO	
<b>D011</b>	(Silver)	5.0	YES	NO	

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

#### Actual Value

<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES	NO	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES	NO	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy phenyl) ethane.)	10.0	YES	NO	
<b>D015</b>	Toxaphene (C10, H16, Cl8 Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES	NO	
<b>D016</b>	2, 4-D, (2,4-Dichlorophenoxyacetic acid)	10.0	YES	NO	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D018 (Benzene)	0.5	YES	NO	_____
D019 (Carbon Tetrachloride)	0.5	YES	NO	_____
D020 (Chlordane)	0.03	YES	NO	_____
D021 (Chlorobenzene)	100.0	YES	NO	_____
D022 (Chloroform)	6.0	YES	NO	_____
D023 (o-Cresol)	200.0	YES	NO	_____
D024 (m-Cresol)	200.0	YES	NO	_____
D025 (p-Cresol)	200.0	YES	NO	_____
D026 (Cresol)	200.0	YES	NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES	NO	_____
D028 (1,2-Dichloroethane)	0.5	YES	NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES	NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES	NO	_____

Organic Toxicity Wastes	Characteristic Level (ppm)			Actual Value
D031 (Heptachlor (and its hydroxide))	0.008	YES	NO	_____
D032 (Hexachlorobenzene)	0.13	YES	NO	_____
D033 (Hexachlorobutadiene)	0.5	YES	NO	_____
D034 (Hexachloroethane)	3.0	YES	NO	_____
D035 (Methyl ethyl ketone)	200.0	YES	NO	_____
D036 (Nitrobenzene)	2.0	YES	NO	_____
D037 (Pentachlorophenol)	100.0	YES	NO	_____
D038 (Pyridine)	5.0	YES	NO	_____
D039 (Tetrachlorethylene)	0.7	YES	NO	_____
D040 (Trichlorethylene)	0.5	YES	NO	_____
D041 (2,4,5-Trichlorophenol)	400.0	YES	NO	_____
D042 (2,4,6-Trichlorophenol)	2.0	YES	NO	_____
D043 (Vinyl chloride)	0.2	YES	NO	_____

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JLC*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
Known or suspected hazardous waste

Signatures

*Jerry L. Covey*

JERRY L. COVEY

*Mr. Conrad Shea*

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82008 W 22449

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste approval. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM AND A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12291 Schoeller Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company or agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
 Address 1416 Dodge St. City Omaha State NE Zip Code 68179  
 Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
 Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
 Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Residue from plating tank Land Ban Notification Required? ☐ Yes ☒ No  
 (If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup RR WASTE CYANIDE, IN ORGANIC, N.O.S.  
 DOT Shipping Name: Nonregulated per 40 & 49 CFR CLASS 6.1 PKG 7 UN1588  
 Packing Group: NA DOT Hazard Class: NA UN/NA # NA  
 Special Provisions:   
 EPA Waste Number(s): none 0003, F007, F008, D010 0030

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable Reactive Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°F: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☐ Liquid Other (explain):

Visual Description: white solid residue inside tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-8900

**4 Chemical Composition** Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace," "present." Do not use words such as "unknown" or "not available."

Specific Gravity: \_\_\_\_\_ pH: 9.6

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic	<u>NA</u>	Barium	<u>NA</u>	Cadmium	<u>NA</u>	Chromium	<u>NA</u>	Chromium (+6)	<u>NA</u>	Chromium Total	<u>NA</u>
Cobalt	<u>/</u>	Copper	<u>/</u>	Lead	<u>/</u>	Lithium	<u>/</u>	Mercury	<u>/</u>	Nickel	<u>/</u>
Silver	<u>/</u>	Zinc	<u>/</u>	Selenium	<u>/</u>	Total Cyanides	<u>/</u>	Total Sulfides	<u>/</u>	Iron	<u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23? ☐ Yes ☒ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power tail gate, vacuum tankers, etc.

of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:****11**

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
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4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

- D001** (characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))
- D002** (characteristic of corrosivity as defined in 40 CFR 261.22)
- D003** (characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))

YES NO  
YES NO  
YES NO

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

Actual Value

**D012** Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)

0.02

YES

NO

**D013** Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)

0.4

YES

NO

**D014** Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy phenyl) ethane)

10.0

YES

NO

**D015** Toxaphene (C<sub>10</sub>, H<sub>16</sub>, Cl<sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)

0.5

YES

NO

**D016** 2, 4-D, (2,4-Dichloro-phenoxyacetic acid.)

10.0

YES

NO

**D017** 2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)

1.0

YES

NO

### Metal Wastes

Characteristic Level (ppm)

Actual Value

- | Metal Wastes           | Characteristic Level (ppm) | YES | NO | Actual Value |
|------------------------|----------------------------|-----|----|--------------|
| <b>D004</b> (Arsenic)  | 5.0                        | YES | NO |              |
| <b>D005</b> (Barium)   | 100.0                      | YES | NO |              |
| <b>D006</b> (Cadmium)  | 1.0                        | YES | NO |              |
| <b>D007</b> (Chromium) | 5.0                        | YES | NO |              |
| <b>D008</b> (Lead)     | 5.0                        | YES | NO |              |
| <b>D009</b> (Mercury)  | 0.2                        | YES | NO |              |
| <b>D010</b> (Selenium) | 1.0                        | YES | NO |              |
| <b>D011</b> (Silver)   | 5.0                        | YES | NO |              |

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor) (and its hydroxide)	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12

12. Yes, and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

13. Must be signed by the appropriate person(s) responsible for the sample generating or handling the waste.

GENERATOR CERTIFICATION

Environment

*[Signature: Larry Booy]*

JERRY L. COVEY

*[Signature: Mrs. Constance Mear]*

**CyanokEM****WASTE STREAM CHARACTERIZATION RECORD**

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID098011992

Waste Lab Control Number: C- 82203 - W 224 55

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

**NOTE:**1 solid 1 liquid  
93013 11b 44

PLEASE SUBMIT THE COMPLETED FORM AT A 16 TO 32 OUNCE SAMPLE OF THE WASTE STREAM TO: Approvals Laboratory, CyanokEM, 12381 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number. If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: ( 316 ) 268-9490 Fax: ( 316 ) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: debris, Cyanide solution, white solid residue, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Cyanide solutions DOT Hazard Class: 6.1 UN/NA # UN1935  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D002, D003, 10006

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable (Reactive (Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒Physical State at 70°: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☒ Liquid Other (explain): Visual Description: oily yellow liquid, white residue, debris in tank**American NuKEM Representative:**☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-591

**4 Chemical Composition** Check "% or "ppm. If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: 1.0 pH: 13

Chemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NA

Reactive Under 40CFR261.23 ☒ Yes ☐ No

Other Components: \_\_\_\_\_

**5 Other Components and Constituents:** If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials \_\_\_\_\_ Pathogens \_\_\_\_\_ Etiological Agents \_\_\_\_\_ Pesticides \_\_\_\_\_  
PCB's \_\_\_\_\_ PBB's \_\_\_\_\_ Dioxins \_\_\_\_\_ Radioactive Materials \_\_\_\_\_

**6** List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

**7** Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 plating tank

**8** Check appropriate box, fill in blank(s). If "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

**9** Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

**10** Give details of special requirements such as power, tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_**Scheduling Contact:** \_\_\_\_\_

Ken Marks

Telephone: (313) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.
3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
 CyanoKEM Inc.  
 12381 Schaefer Highway  
 Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (1) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

### Herbicide/Pesticide Wastes Characteristic Level (ppm)

Actual Value

<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene)	0.02	YES	NO	_____
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES	NO	_____
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) lethane)	10.0	YES	NO	_____
<b>D015</b>	Toxaphene (C <sub>12</sub> H <sub>10</sub> Cl <sub>10</sub> Technical chlorinated camphene, 67-69 percent chlorine)	0.5	YES	NO	_____
<b>D016</b>	2, 4-D, (2,4 Dichloro phenoxyacetic acid)	10.0	YES	NO	_____
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES	NO	_____

Metal Wastes	Characteristic Level (ppm)	Actual Value
<b>D004</b> (Arsenic)	5.0	YES NO _____
<b>D005</b> (Barium)	100.0	YES NO _____
<b>D006</b> (Cadmium)	1.0	YES NO _____
<b>D007</b> (Chromium)	5.0	YES NO _____
<b>D008</b> (Lead)	5.0	YES NO _____
<b>D009</b> (Mercury)	0.2	YES NO _____
<b>D010</b> (Selenium)	1.0	YES NO _____
<b>D011</b> (Silver)	5.0	YES NO _____

Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)	Actual Value
D018 (Benzene)	0.5	YES NO	D031 (Heptachlor (and its hydroxide))	0.008	YES NO
D019 (Carbon Tetrachloride)	0.5	YES NO	D032 (Hexachlorobenzene)	0.13	YES NO
D020 (Chlordane)	0.03	YES NO	D033 (Hexachlorobutadiene)	0.5	YES NO
D021 (Chlorobenzene)	100.0	YES NO	D034 (Hexachloroethane)	3.0	YES NO
D022 (Chloroform)	6.0	YES NO	D035 (Methyl ethyl ketone)	200.0	YES NO
D023 (o-Cresol)	200.0	YES NO	D036 (Nitrobenzene)	2.0	YES NO
D024 (m-Cresol)	200.0	YES NO	D037 (Pentachlorophenol)	100.0	YES NO
D025 (p-Cresol)	200.0	YES NO	D038 (Pyridine)	5.0	YES NO
D026 (Cresol)	200.0	YES NO	D039 (Tetrachlorethylene)	0.7	YES NO
D027 (1,4-Dichlorobenzene)	7.5	YES NO	D040 (Trichlorethylene)	0.5	YES NO
D028 (1,2-Dichloroethane)	0.5	YES NO	D041 (2,4,5-Trichlorophenol)	400.0	YES NO
D029 (1,1-Dichloroethylene)	0.7	YES NO	D042 (2,4,6-Trichlorophenol)	2.0	YES NO
D030 (2,4-Dinitrotoluene)	0.13	YES NO	D043 (Vinyl chloride)	0.2	YES NO

12

Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *[Signature]*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

13

**Must be signed by the appropriate personnel representing the company generating or handling the waste.**

GENERATOR CERTIFICATION: I certify that the information provided on this form is true and correct to the best of my knowledge and belief.

Signature: *[Signature]* JERRY L. COVEY  
 Signature: *[Signature]* Mgr. Control Mgmt.

## WASTE STREAM CHARACTERIZATION RECORD

Regulations require generators and/or brokers to fully complete this Waste Stream Characterization Record before wastes can be accepted for treatment.



EPA Identification Number: MID099011992

Waste Lab Control Number: C- 00000 W 2 2458

## NOTE:

All items on each page must be completed. This includes the Addendum to Profile on pages 4 and 5. Remember to sign section 13 on the WSCR as well as the "Generator Certification" at the bottom of the Addendum. This will assure you the most rapid waste removal. Please send original paperwork with sample.

PLEASE SUBMIT THE COMPLETED FORM /  
A 16 10 32 OUTSIDE SAMPLE OF THE WASTE  
STREAM TO: Approvals Laboratory, Cyanok  
12391 Schaefer Hwy, Detroit, MI 48227

**1 Generator Information:** Provide generator's USEPA identification number, name, address, contact person and telephone number — If you are a broker, service company or regulatory agency representing a generator, regulations require you to provide the name of the generator in this section.

Generator ID # N E D 0 0 0 8 2 9 7 5 4 Name Union Pacific Railroad Company  
Address 1416 Dodge St. City Omaha State NE Zip Code 68179  
Official Contact Jerry Covey Title Manager Compliance Measures Telephone (402) 271-4037 Fax

**2 Broker Information:** If you are a broker, service company or regulatory agency representing a generator, provide your name, address, telephone number and contact person in this section.

Name: USPCI Official Contact: Ken Marks Telephone: (316) 268-9490 Fax: (316) 268-9418  
Address: 2549 N. New York City: Wichita State: KS Zip: 67219  
Gen. ID: K S D 0 0 7 2 4 6 8 4 6

**3 Waste Description:** Fill in all of the blanks in this section to the best of your knowledge. If "other" is checked, insert a brief description in the space provided.

Common Chemical Name/Trade Name: Cyanide solution residue, plating tank Land Ban Notification Required? ☒ Yes ☐ No  
(If trade name is used, attach MSDS)

Process Producing Waste: Plating Shop Cleanup  
DOT Shipping Name: Waste Cyanides, inorganic, n.o.s. DOT Hazard Class: 6.1 UN/NA # UN 1588  
Packing Group: II Special Provisions:   
EPA Waste Number(s): D003

If your waste is not a listed waste (F or K) then circle the hazardous characteristic: Ignitable (Reactive) Corrosive Toxic Oxidizer

Are filters present: yes ☐ no ☒

Physical State at 70°: ☒ Solid Chunks ☐ Solid Monolith ☐ Sludge ☐ Liquid Other (explain):

Visual Description: gray-white solid residue inside tank

American NuKEM Representative:

☐ Rock Hill, SC (803) 329-9690 ☐ Mahwah, NJ (201) 818-0900 ☐ Southfield, MI (313) 559-5900

4

**Chemical Composition**

Check "%" or "ppm." If you use percentages, your total must equal 100%. If you use ppm and do not know exact quantities, you can use words such as "trace" or "present." Do not use words such as "unknown" or "not available."

Specific Gravity: NA pH: NAChemical Composition in (check one): ☐ % ☐ ppm

Arsenic <u>NA</u>	Barium <u>NA</u>	Cadmium <u>NA</u>	Chromium <u>NA</u>	Chromium (+6) <u>NA</u>	Chromium Total <u>NA</u>
Cobalt <u>/</u>	Copper <u>/</u>	Lead <u>/</u>	Lithium <u>/</u>	Mercury <u>/</u>	Nickel <u>/</u>
Silver <u>/</u>	Zinc <u>/</u>	Selenium <u>/</u>	Total Cyanides <u>/</u>	Total Sulfides <u>/</u>	Iron <u>/</u>

ATTACH MOST RECENT ANALYTICAL INFORMATION, IF AVAILABLE.

Oils, Grease NA Organics NA Phenols NA Acids NA Bases NAReactive Under 40CFR261.23? ☒ Yes ☐ No

Other Components: \_\_\_\_\_

5

**Other Components and Constituents:**

If any of the listed constituents are known to be present, insert the amount in weight percent or ppm.

Are any of the following present: ☐ Yes ☒ No If yes, then circle those present.

Biological Materials _____	Pathogens _____	Etiological Agents _____	Pesticides _____
PCB's _____	PBB's _____	Dioxins _____	Radioactive Materials _____

6

List any special handling instructions for the materials that are known to be present.

Indicate any special handling instructions: \_\_\_\_\_

7

Provide best available figures.

Approximate Amount of Waste Produced Annually: one time cleanup Amount on Hand: 1 tank

8

Check appropriate box, fill in blank(s). IF "other," describe. List all container sizes.

Packaging for Shipment: ☒ Drums (size) various gallons (weight) \_\_\_\_\_ pounds ☒ Bulk ☐ Other: \_\_\_\_\_

9

Please provide your standard industrial code in the space provided.

Standard Industrial Code (SIC): 4011

10

Give details of special requirements such as power tail gate, vacuum tankers, etc.

**Transportation Equipment Requirements:** \_\_\_\_\_

11

Provide the name and telephone number of the individual responsible for scheduling waste shipments.

**Scheduling Contact:**

Ken Marks

**Telephone:** (316) 268-9490

**GENERAL INFORMATION FOR WSCR**

1. Instructions for completing CyanoKEM's Waste Stream Characterization Record (WSCR) are above each section. Providing an accurate and complete form assures the most rapid waste approval. For assistance, call CyanoKEM's sales office: (313) 353-5880.
2. Regulations require that all the information requested by the WSCR must be provided before wastes can be accepted at CyanoKEM. Complete this form to the best of your knowledge considering the origin and use of the materials.
3. A separate WSCR must be completed for each waste sample sent to CyanoKEM.
4. Your waste approval will be processed most quickly if you fill out the WSCR completely and accurately. If we find inconsistencies in your

WSCR it must be returned to you for correction and resubmitted for final approval. Alternately, to save time you should authorize CyanoKEM to correct your WSCR by checking "Yes" and signing in Item 11 above. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. You will receive a copy of the corrected WSCR for your records.

5. CyanoKEM, Inc., in compliance with 40 CFR 264.12 (b), has the appropriate permit(s) for the waste material(s) as described on this waste stream characterization record. CyanoKEM, Inc. will accept such waste material provided that any terms and conditions detailed on the contractual agreement of our quotation are met.

**SAMPLE SUBMITTAL**

1. Remove the pull-off label from the front of this form and attach it to your sample container.
2. Use DOT approved packaging.

3. Package this form together with a 16 to 32 ounce sample of your waste stream and send to:

Approvals Laboratory  
CyanoKEM Inc.  
12381 Schaefer Highway  
Detroit, MI 48227

## ADDENDUM TO PROFILE

Regulations require that you certify if any of the following constituents are present at characteristic levels in your waste stream. Indicate yes or no for EACH constituent. If analytical is available, please enter this in the actual value space provided.

### Characteristic Wastes

<b>D001</b>	(characteristic of ignitability as defined in 40 CFR 261.21 (a) (4) (Oxidizer))	YES	NO
<b>D002</b>	(characteristic of corrosivity as defined in 40 CFR 261.22)	YES	NO
<b>D003</b>	(characteristic of reactivity as defined in 40 CFR 261.23 (a) (2), (4), (5))	YES	NO

Metal Wastes		Characteristic Level (ppm)		Actual Value	
<b>D004</b>	(Arsenic)	5.0	YES NO	_____	
<b>D005</b>	(Barium)	100.0	YES NO	_____	
<b>D006</b>	(Cadmium)	1.0	YES NO	_____	
<b>D007</b>	(Chromium)	5.0	YES NO	_____	
<b>D008</b>	(Lead)	5.0	YES NO	_____	
<b>D009</b>	(Mercury)	0.2	YES NO	_____	
<b>D010</b>	(Selenium)	1.0	YES NO	_____	
<b>D011</b>	(Silver)	5.0	YES NO	_____	

Herbicide/Pesticide Wastes		Characteristic Level (ppm)		Actual Value	
<b>D012</b>	Endrin (1, 2, 3, 4, 10, 10-hexachloro-1, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4-endo, endo-5, 8-dimethano-naphthalene.)	0.02	YES NO	_____	
<b>D013</b>	Lindane (1,2,3,4,5, 6-Hexa-chlorocyclohexane, gamma isomer.)	0.4	YES NO	_____	
<b>D014</b>	Methoxychlor (1,1, 1-Trichloro-2, 2-bis (p-methoxy-phenyl) ethane.)	10.0	YES NO	_____	
<b>D015</b>	Toxaphene (C <sub>10</sub> , H <sub>10</sub> , Cl <sub>8</sub> Technical chlorinated camphene, 67-69 percent chlorine.)	0.5	YES NO	_____	
<b>D016</b>	2, 4-D, (2,4-Dichloro-phenoxyacetic acid)	10.0	YES NO	_____	
<b>D017</b>	2, 4, 5-TP Silvex (2,4, 5-Trichlorophenoxypropionic acid.)	1.0	YES NO	_____	

Organic Toxicity Wastes	Characteristic Level (ppm)		Actual Value	Organic Toxicity Wastes	Characteristic Level (ppm)		Actual Value
D018 (Benzene)	0.5	YES NO	_____	D031 (Heptachlor (and its hydroxide))	0.008	YES NO	_____
D019 (Carbon Tetrachloride)	0.5	YES NO	_____	D032 (Hexachlorobenzene)	0.13	YES NO	_____
D020 (Chlordane)	0.03	YES NO	_____	D033 (Hexachlorobutadiene)	0.5	YES NO	_____
D021 (Chlorobenzene)	100.0	YES NO	_____	D034 (Hexachloroethane)	3.0	YES NO	_____
D022 (Chloroform)	6.0	YES NO	_____	D035 (Methyl ethyl ketone)	200.0	YES NO	_____
D023 (o-Cresol)	200.0	YES NO	_____	D036 (Nitrobenzene)	2.0	YES NO	_____
D024 (m-Cresol)	200.0	YES NO	_____	D037 (Pentachlorophenol)	100.0	YES NO	_____
D025 (p-Cresol)	200.0	YES NO	_____	D038 (Pyridine)	5.0	YES NO	_____
D026 (Cresol)	200.0	YES NO	_____	D039 (Tetrachlorethylene)	0.7	YES NO	_____
D027 (1,4-Dichlorobenzene)	7.5	YES NO	_____	D040 (Trichlorethylene)	0.5	YES NO	_____
D028 (1,2-Dichloroethane)	0.5	YES NO	_____	D041 (2,4,5-Trichlorophenol)	400.0	YES NO	_____
D029 (1,1-Dichloroethylene)	0.7	YES NO	_____	D042 (2,4,6-Trichlorophenol)	2.0	YES NO	_____
D030 (2,4-Dinitrotoluene)	0.13	YES NO	_____	D043 (Vinyl chloride)	0.2	YES NO	_____

**12** Check "Yes" and initial this section if you want CyanoKEM to correct any inconsistencies. The most rapid waste approval will be achieved by authorizing CyanoKEM to make your WSCR corrections. All corrections will be consistent with the results of sample characterization and/or regulatory requirements. You will receive a copy of the corrected WSCR for your records. If you do not authorize CyanoKEM to make corrections, WSCR's must be returned to you for your correction and resubmitted for final approval. This extends your waste approval time.

**Authorization to Correct WSCR:** I authorize CyanoKEM to make corrections to this WSCR Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of Michigan DNR or EPA. I understand that a corrected copy will be sent to me. Yes ☒ No ☐ Initial: *JL*

**NOTE:** Any significant changes or deviations from the waste received versus the information on this form requires amendment.

**13** Must be signed by the appropriate personnel representing the company generating or handling the waste.

GENERATOR CERTIFICATION  
Known or suspected hazardous waste

*Jerry L. Covey*

JERRY L. COVEY

*Major Counsel Mea*